





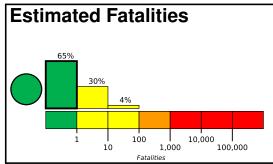
PAGER

Version 4

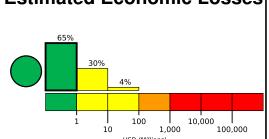
M 5.4, 27 km SSE of Madang, Papua New Guinea

Origin Time: 2023-11-09 20:53:44 UTC (Fri 06:53:44 local) Location: 5.4451° S 145.8893° E Depth: 49.3 km

Created: 5 days, 0 hours after earthquake



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage.



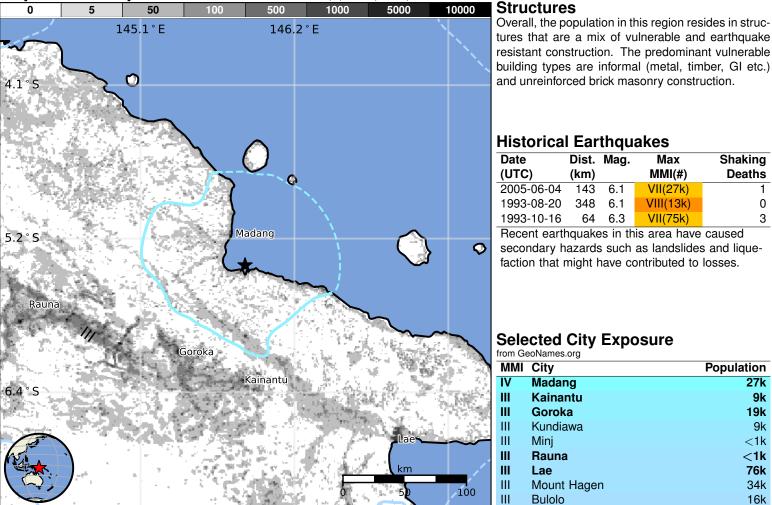
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	2,558k	325k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2005-06-04	143	6.1	VII(27k)	1
1993-08-20	348	6.1	VIII(13k)	0
1993-10-16	64	6.3	VII(75k)	3

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Madang	27k
Ш	Kainantu	9k
Ш	Goroka	19k
Ш	Kundiawa	9k
Ш	Minj	<1k
Ш	Rauna	<1k
Ш	Lae	76k
Ш	Mount Hagen	34k
Ш	Bulolo	16k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us7000l9xx#pager

Event ID: us7000l9xx